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 Ile Ser Ala His Asn Ile Pro Asn Ala Asn Met Asn Glu Asp Ser
                 140
 Pro Ser Leu Ser Val Asn Phe Thr Ser Pro Gly Cys Leu Asn His
                                      160
                 155
 Val Met Lys Tyr Lys Lys Gln Cys Thr Glu Ala Gly Ser Leu Trp
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                 170
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Asp Pro Asp Ile Thr Ala Cys Lys Asn Glu Lys Met Val Glu
                185
                                     190
Val Asn Phe Thr Thr Asn Pro Leu Gly Asn Arg Tyr Thr Ile Leu
                200
                                     205
Ile Gln Arg Asp Thr Thr Leu Gly Phe Ser Arg Val Leu Glu Asn
                215
                                     220
Lys Leu Met Arg Thr Ser Val Ala Ile Pro Val Thr Glu Glu Ser
                                     235
                230
Glu Gly Ala Val Val Gln Leu Thr Pro Tyr Leu His Thr Cys Gly
                245
                                     250
Asn Asp Cys Ile Arg Arg Glu Gly Thr Val Val Leu Cys Ser Glu
                                     265
                                                          270
                260
Thr Ser Ala Pro Ile Pro Pro Asp Asp Asn Arg Arg Met Leu Gly
                275
                                     280
                                                          285
Gly Trp Leu Pro Leu Phe Leu Val Leu Val Ala Val Trp Val
                290
                                     295
                                                          300
Leu Ala Ala Gly Ile Tyr Leu Thr Trp Arg Gln Gly Arg Ser Thr
                305
                                     310
                                                          315
Lys Thr Ser Phe Pro Ile Ser Thr Met Leu Leu Pro Leu Ile Lys
                320
                                     325
Val Leu Val Val Tyr Pro Ser Glu Ile Cys Phe His His Thr Val
                335
                                     340
Cys Arg Phe Thr Asp Phe Leu Gln Asn Tyr Cys Arg Ser Glu Val
                 350
                                     355
Ile Leu Glu Lys Trp Gln Lys Lys Lys Ile Ala Glu Met Gly Pro
                                     370
                                                          375
                365
Val Gln Trp Leu Thr Thr Gln Lys Gln Ala Ala Asp Lys Val Val
                380
                                     385
                                                          390
Phe Leu Leu Pro Ser Asp Val Pro Thr Leu Cys Asp Ser Ala Cys
                                                          405
                395
                                     400
Gly His Asn Glu Gly Ser Ala Arg Glu Asn Ser Gln Asp Leu Phe
                410
                                     415
Pro Leu Ala Phe Asn Leu Phe Cys Ser Asp Phe Ser Ser Gln Thr
                425
                                     430
                                                          435
His Leu His Lys Tyr Leu Val Val Tyr Leu Gly Gly Ala Asp Leu
                440
                                     445
                                                          450
Lys Gly Asp Tyr Asn Ala Leu Ser Val Cys Pro Gln Tyr His Leu
                455
                                     460
                                                          465
Met Lys Asp Ala Thr Ala Phe His Thr Glu Leu Leu Lys Ala Thr
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Gln Ser Met Ser Val Lys Lys Arg Ser Gln Ala Cys His Asp Ser
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                                     490
                                                          495
Cys Ser Pro Leu
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Ser Pro Glu Trp Met Val Gln His Thr Leu Thr Pro Gly Asp Leu
                 35
Arg Asp Leu Gln Val Glu Leu Val Lys Thr Ser Val Ala Ala Glu
                 50
                                      55
Glu Phe Ser Ile Leu Met Asn Ile Ser Trp Ile Leu Arg Ala Asp
                                      70
                                                           75
                 65
Ala Ser Ile Arg Leu Leu Lys Ala Thr Lys Ile Cys Val Ser Gly
                                                           90
Lys Asn Asn Met Asn Ser Tyr Ser Cys Val Arg Cys Asn Tyr Thr
                                     100
                 95
Glu Ala Phe Gln Ser Gln Thr Arg Pro Ser Gly Gly Lys Trp Thr
                                     115
                 110
Phe Ser Tyr Val Gly Phe Pro Val Glu Leu Ser Thr Leu Tyr Leu
                125
                                     130
Ile Ser Ala His Asn Ile Pro Asn Ala Asn Met Asn Glu Asp Ser
                 140
Pro Ser Leu Ser Val Asn Phe Thr Ser Pro Gly Cys Leu Asn His
                155
                                     160
                                                          165
Val Met Lys Tyr Lys Lys Gln Cys Thr Glu Ala Gly Ser Leu Trp
                170
                                     175
Asp Pro Asp Ile Thr Ala Cys Lys Lys Asn Glu Lys Met Val Glu
                185
                                     190
Val Asn Phe Thr Thr Asn Pro Leu Gly Asn Arg Tyr Thr Ile Leu
                200
                                     205
Ile Gln Arg Asp Thr Thr Leu Gly Phe Ser Arg Val Leu Glu Asn
                 215
                                     220
Lys Leu Met Arg Thr Ser Val Ala Ile Pro Val Thr Glu Glu Ser
                                     235
                230
Glu Gly Ala Val Val Gln Leu Thr Pro Tyr Leu His Thr Cys Gly
                                     250
                245
Asn Asp Cys Ile Arg Arg Glu Gly Thr Val Val Leu Cys Ser Glu
                260
                                     265
Thr Ser Ala Pro Ile Pro Pro Asp Asp Asn Arg Arg Met Leu Gly
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                                     280
                                                          285
Gly Trp Leu Pro
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Leu Gly Leu Leu Leu Leu Gly Val Leu Ala Pro Gly Gly
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Ala Ser Leu Arg Leu Leu Asp His Arg Ala Leu Val Cys Ser Gln
                 35
                                                          45
Pro Gly Leu Asn Cys Thr Val Lys Asn Ser Thr Cys Leu Asp Asp
                 50
                                      55
Ser Trp Ile His Pro Arg Asn Leu Thr Pro Ser Ser Pro Lys Asp
                 65
                                      70
Leu Gln Ile Gln Leu His Phe Ala His Thr Gln Gln Gly Asp Leu
Phe Pro Val Ala His Ile Glu Trp Thr Leu Gln Thr Asp Ala Ser
                 95
                                     100
Ile Leu Tyr Leu Glu Gly Ala Glu Leu Ser Val Leu Gln Leu Asn
                                     115
                110
Thr Asn Glu Arg Leu Cys Val Arg Phe Glu Phe Leu Ser Lys Leu
                125
                                     130
Arg His His Arg Arg Trp Arg Phe Thr Phe Ser His Phe Val
                                     145
                140
Val Asp Pro Asp Gln Glu Tyr Glu Val Thr Val His His Leu Pro
                                     160
                155
Lys Pro Ile Pro Asp Gly Asp Pro Asn His Gln Ser Lys Asn Phe
                170
                                     175
Leu Val Pro Asp Cys Glu His Ala Arg Met Lys Val Thr Thr Pro
                185
                                     190
                                                         195
Cys Met Ser Ser Gly Ser Leu Trp Asp Pro Asn Ile Thr Val Glu
                200
                                     205
Thr Leu Glu Ala His Gln Leu Arg Val Ser Phe Thr Leu Trp Asn
                                     220
                215
Glu Ser Thr His Tyr Gln Ile Leu Leu Thr Ser Phe Pro His Met
                230
                                     235
Glu Asn His Ser Cys Phe Glu His Met His His Ile Pro Ala Pro
                245
                                     250
Arg Pro Glu Glu Phe His Gln Arg Ser Asn Val Thr Leu Thr Leu
                260
                                     265
Arg Asn Leu Lys Gly Cys Cys Arg His Gln Val Gln Ile Gln Pro
                                     280
Phe Phe Ser Ser Cys Leu Asn Asp Cys Leu Arg His Ser Ala Thr
                290
                                     295
                                                         300
Val Ser Cys Pro Glu Met Pro Asp Thr Pro Glu Pro Ile Pro Asp
                305
                                     310
                                                         315
Tyr Met Pro Leu Trp Val Tyr Trp Phe Ile Thr Gly Ile Ser Ile
                320
                                     325
                                                         330
Leu Leu Val Gly Ser Val Ile Leu Leu Ile Val Cys Met Thr Trp
                                     340
Arg Leu Ala Gly Pro Gly Ser Glu Lys Tyr Ser Asp Asp Thr Lys
                                     355
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Tyr Thr Asp Gly Leu Pro Ala Ala Asp Leu Ile Pro Pro Pro Leu
                 365
                                     370
                                                          375
Lys Pro Arg Lys Val Trp Ile Ile Tyr Ser Ala Asp His Pro Leu
                380
                                     385
Tyr Val Asp Val Val Leu Lys Phe Ala Gln Phe Leu Leu Thr Ala
                395
                                     400
Cys Gly Thr Glu Val Ala Leu Asp Leu Leu Glu Glu Gln Ala Ile
                410
                                     415
Ser Glu Ala Gly Val Met Thr Trp Val Gly Arg Gln Lys Gln Glu
                 425
                                     430
                                                          435
Met Val Glu Ser Asn Ser Lys Ile Ile Val Leu Cys Ser Arg Gly
                440
                                     445
Thr Arg Ala Lys Trp Gln Ala Leu Leu Gly Arg Gly Ala Pro Val
                455
                                     460
                                                          465
Arg Leu Arg Cys Asp His Gly Lys Pro Val Gly Asp Leu Phe Thr
                 470
                                     475
Ala Ala Met Asn Met Ile Leu Pro Asp Phe Lys Arg Pro Ala Cys
                485
                                     490
                                                          495
Phe Gly Thr Tyr Val Val Cys Tyr Phe Ser Glu Val Ser Cys Asp
                500
                                     505
Gly Asp Val Pro Asp Leu Phe Gly Ala Ala Pro Arg Tyr Pro Leu
                515
                                     520
Met Asp Arg Phe Glu Glu Val Tyr Phe Arg Ile Gln Asp Leu Glu
                530
                                     535
Met Phe Gln Pro Gly Arg Met His Arg Val Gly Glu Leu Ser Gly
                                     550
                                                          555
                545
Asp Asn Tyr Leu Arg Ser Pro Gly Gly Arg Gln Leu Arg Ala Ala
                560
                                     565
Leu Asp Arg Phe Arg Asp Trp Gln Val Arg Cys Pro Asp Trp Phe
                                     580
                575
Glu Cys Glu Asn Leu Tyr Ser Ala Asp Asp Gln Asp Ala Pro Ser
                590
                                     595
Leu Asp Glu Glu Val Phe Glu Glu Pro Leu Leu Pro Pro Gly Thr
                                     610
                                                          615
                605
Gly Ile Val Lys Arg Ala Pro Leu Val Arg Glu Pro Gly Ser Gln
                620
                                     625
Ala Cys Leu Ala Ile Asp Pro Leu Val Gly Glu Glu Gly Ala
                635
                                     640
Ala Val Ala Lys Leu Glu Pro His Leu Gln Pro Arg Gly Gln Pro
                650
                                     655
Ala Pro Gln Pro Leu His Thr Leu Val Leu Ala Ala Glu Glu Gly
                                     670
                665
Ala Leu Val Ala Ala Val Glu Pro Gly Pro Leu Ala Asp Gly Ala
                680
                                     685
Ala Val Arg Leu Ala Leu Ala Gly Glu Gly Glu Ala Cys Pro Leu
                695
                                     700
                                                          705
Leu Gly Ser Pro Gly Ala Gly Arg Asn Ser Val Leu Phe Leu Pro
                710
                                     715
                                                          720
Val Asp Pro Glu Asp Ser Pro Leu Gly Ser Ser Thr Pro Met Ala
                725
                                     730
Ser Pro Asp Leu Leu Pro Glu Asp Val Arg Glu His Leu Glu Gly
                                     745
                                                          750
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Leu Met Leu Ser Leu Phe Glu Gln Ser Leu Ser Cys Gln Ala Gln
                755
                                     760
Gly Gly Cys Ser Arg Pro Ala Met Val Leu Thr Asp Pro His Thr
                                                         780
                                     775
                770
Pro Tyr Glu Glu Glu Gln Arg Gln Ser Val Gln Ser Asp Gln Gly
                                     790
                785
Tyr Ile Ser Arg Ser Ser Pro Gln Pro Pro Glu Gly Leu Thr Glu
                                     805
                800
Met Glu Glu Glu Glu Glu Glu Gln Asp Pro Gly Lys Pro Ala
                                     820
                815
Leu Pro Leu Ser Pro Glu Asp Leu Glu Ser Leu Pro Ser Leu Gln
                                                         840
                                     835
                830
Arg Gln Leu Leu Phe Arg Gln Leu Gln Lys Asn Ser Gly Trp Asp
                                                         855
                                     850
                845
Thr Met Gly Ser Glu Ser Glu Gly Pro Ser Ala
                                     865
                860
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